

**Attorney Docket
No. 3184**

We Claim:

1. An ink jet print engine with Internet connectivity, comprising:

printer hardware and software providing a functioning printer, including a piezoelectric printhead for dispensing ink onto a substrate; and
Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded Internet server having a valid IP address.

2. The ink jet print engine of Claim 1, wherein the printer software stores one or more valid IP addresses of servers corresponding to maintenance or service centers for one or more components of the print engine.

3. The ink jet print engine of Claim 1, wherein the microprocessor comprises a chip.

4. The ink jet print engine of Claim 3, wherein the chip comprises Ethernet MAC and system controllers.

5. The ink jet print engine of Claim 4, wherein the system controllers include memory, DMA, interrupts and timers.

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6. The ink jet print engine of Claim 3, wherein the chip comprises cache, I/O, real time operating systems, device driver software and communications protocol software.

7. The ink jet print engine of Claim 1, wherein the printer comprises integrated networking software.

8. The ink jet print engine of Claim 1, wherein the microprocessor uses an RTOS operating system.

9. A print engine with Internet connectivity, comprising:
 printer hardware and software providing a functioning printer for dispensing information onto a substrate; and

 Internet hardware and software for providing the print engine with Internet connectivity, including a microprocessor communicating with the printer hardware and software, the microprocessor comprising an embedded Internet server having a valid IP address.